



President Obama convenes meeting on Zika virus in Situation Room, January 2016 (The White House/Pete Souza)

Rediscovering the Art of Strategic Thinking

Developing 21st-Century Strategic Leaders

By Daniel H. McCauley

At a time when global instability and uncertainty are undeniable, the demand for astute American global strategic leadership is greater than ever. Unfortunately, tactical superficiality and parochial policies of convenience are undermining joint strategic leader development and the

ability to operate effectively around the world.¹ Tactical supremacy and the lack of a peer competitor have contributed to strategic thinking becoming a lost art. This critical shortfall has been recognized for a number of years. General Anthony Zinni, USMC (Ret.), and Tony Koltz stated in their 2009 book *Leading the Charge* that leaders today have no vision and consequently have “lost the ability to look and plan ahead.”² Trapped within rigid bureau-

cracies, today’s joint strategic leaders immerse themselves in current operations, reacting to, rather than shaping, future events.

This strategic leadership shortfall is not unique to the military establishment. A 2014 leadership study conducted by the Palladium Group surveyed more than 1,200 companies in 74 countries. In this study, although more than 96 percent of the “respondents identified strategic leadership as an organizational ‘must-have’

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and a key to future success,” over 50 percent of the respondents “stated that the quality of their organization’s strategic leadership was unsatisfactory.”³ Fully two-thirds of the respondents serving in an organizational capacity as board member, chief executive officer, or managing director “did not believe that their current leadership development approach was providing the necessary skills to successfully execute their strategy.”⁴

Obviously, there is a recognized strategic leadership gap across multiple disciplines, but how to remedy that shortfall has eluded both trainers and educators. The only certainty is that strategic leader development remains entrenched within the same development processes that are falling well short of the desired outcome. In an attempt to change this legacy thinking, General Martin Dempsey, USA, during his last 2 years as Chairman of the Joint Chiefs, issued white papers on mission command, the profession of arms, and joint education, as well as a memorandum on desired leader attributes. Each of these documents highlighted this shortfall in strategic leadership in some form.⁵ The then-Chairman’s direction, however, failed to change the approach to leader development in any meaningful way. Instead of designing a strategic leadership program to meet the demands of the 21st century, the military community continues to embrace the outdated practices of the past.

To rediscover the art of strategic thinking and planning, joint strategic leader development must disconnect itself from the paradigm of the past in which outcomes are known, risk is certain and manageable, and linear thinking is the norm. In its place, a developmental paradigm that embraces the discomforts of ambiguity, uncertainty, and complexity must be adopted. Modifying the training adage that the joint force must train the way it will fight, joint strategic leader development must reflect the realities of the global environment within which strategic decisionmaking occurs. Specifically, the joint force must develop strategic thinking competencies that will prepare strategic leaders for the ambiguities,

uncertainties, and complexities of the 21st-century global security environment.

Strategic Leadership

Why are the Chairman and so many others focused on leadership? There are a number of reasons. First, local and regional trends, which were once somewhat isolated and constant, are interacting with global trends to accelerate rates of change. This increased acceleration leaves little decisionmaking time for cumbersome bureaucracies; rather, the environment demands timely strategic decisions at the field level. Second, the accelerated rates of change in local, regional, and global environments have increased uncertainty at all levels, paralyzing decisionmakers looking for risk-free strategies or plans. Third, as the world appears to grow smaller due to advanced communications and transportation systems, complexity actually increases because of the expanded numbers of stakeholders in today’s interconnected global systems. Fourth, global interdependencies—economic, social, religious, and military, among others—demand that local or regional issues be viewed in a depth and breadth not previously undertaken.⁶ Joint strategic leaders are reluctant to embrace security issues in their broader context even when the interrelated global security environment requires a long-term approach to do so. Finally, in a review of the lessons learned over the past 13

years of war, various organizations and studies assessed strategic thinking and strategic leadership as lacking during national strategic decisionmaking.⁷

These five reasons demand that joint officers develop a level of understanding not previously required from a national security perspective or demanded of them individually. This newly required depth and breadth of understanding entail the development of a perspective that encompasses longer periods of time—not only the present and near future, but also the distant past as well as the distant future. By drawing on an understanding of the past, joint strategic leaders can build a realistic vision that pulls joint organizations through the challenges of the present while positioning the Nation for future success. Without a vision of the future, the joint force is at a distinct disadvantage, as it will be caught unaware of developing trends, policies, and potential adversaries.

Strategic leader responsibilities generally encompass multiple organizations and echelons diverse in missions and responsibilities.⁸ The interdependencies and interactions of the global environment have created a skills mismatch for joint strategic leaders over the past few decades. The current challenge is how to address the multitude of global challenges, given the limited range of individual and staff expertise and experiences. Considering figure 1, one can get a sense of the skill requirements necessary in the industrial

Figure 1. Industrial Age Skills

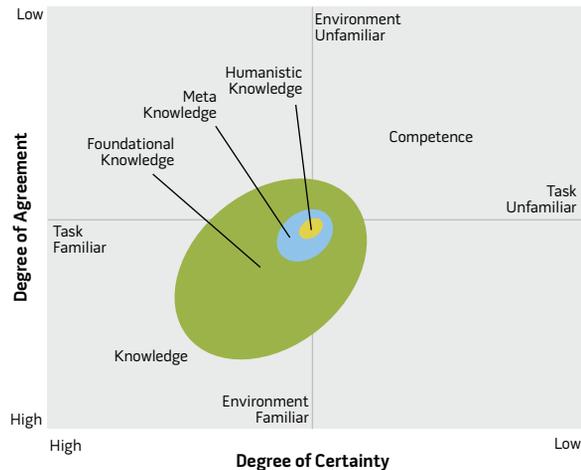
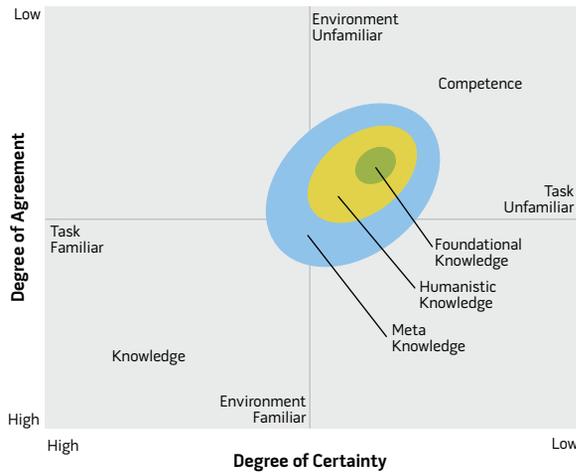


Figure 2. Information Age Skills



age. Generally, the degree of certainty of any given issue and the degree of agreement among experts for a solution (as indicated by the x and y axes) were fairly high. As such, knowledge—usually in the form of domain-specific experts—was foundational in developing an understanding of the issue. In most cases, both the tasks and the environment were familiar; thus, the need for different thinking methodologies (meta-knowledge) and cultural understanding (humanistic knowledge) was relatively small in comparison to foundational knowledge. If a problem was encountered, an expert was called in to “solve” it.⁹

Figure 2 illustrates the transposition of skills needed in the information age. Again, generally speaking, the strategic operating environment has expanded to include regions for which the United States has little or no expertise, with tasks becoming increasingly unfamiliar. As the degrees of certainty and expert agreement have decreased, the need for domain-specific foundational knowledge has significantly diminished. In the information age, meta- and humanistic knowledge come to the fore as the need to address the dynamics of integrated domains and multiple cultural perspectives increases. Specific foundational knowledge is decreased proportionally because collaborative approaches can potentially develop multiple solutions needed to address the complexities of integrated security domains.

Joint Leadership

Given the skills required of strategic leaders in the information age, it is necessary to undertake a short review of Service and joint leadership development and doctrine to identify the current strategic leadership shortfall. As expected, the Services do an excellent job describing leadership at multiple command levels. For example, Army Doctrine Publication 6-22, *Army Leadership*,¹⁰ and the Air Force’s Core Doctrine, Vol. II, *Leadership*,¹¹ provide definitions, purpose, competencies, and attributes required by leaders for conducting warfighting. Service leadership clearly formed the bedrock of American tactical and operational successes for many decades.

In his white paper titled *America’s Military: A Profession of Arms*, General Dempsey further amplified this symbiosis between battlefield success and leadership, stating that the foundation of the military profession is leadership.¹² Unfortunately, unlike the focus the Services place on leadership, the joint community falls short. In lieu of leadership, joint doctrine relies on operational concepts, functions, and processes. For example, Joint Publication (JP) 1, *Doctrine for the Armed Forces of the United States*, does a very good job describing command and control within joint organizations.¹³ However, it fails to describe the leadership differences that emerge as leadership and

decisionmaking transitions from the joint task force (JTF) or component level to the combatant command, Joint Staff, and interagency levels. JP 1 does provide a short description of the profession of arms, listing character traits, competencies, and values, but these are relegated to an appendix not quite two-and-a-half pages in length.¹⁴

Recognizing this shortfall in joint doctrine and leader development, General Dempsey provided new guidance for the joint community based on a review of the past 13 years of war. In 2013, he laid out six desired attributes for leaders in a memorandum for Service chiefs, combatant commanders, the National Guard bureau chief, and the directors of the Joint Staff. These attributes assist the joint force in developing “agile and adaptive leaders with the requisite values, strategic vision, and critical thinking skills to keep pace with the changing strategic environment.”¹⁵ Coupled with the character, values, and competencies listed in JP 1, a leadership framework begins to emerge.¹⁶

Examining this framework, two issues become readily evident. First, the definition of joint leadership is missing. Second, the competencies as described in joint doctrine focus primarily on the tactical and low operational levels of war and fail to address strategic leadership in any form. Unfortunately, each of these missing pieces reinforces a tactical perspective of leadership at all echelons. Joint doctrine appears to assume that Service leadership development is adequate for strategic leadership despite recent evidence to the contrary.

As General Dempsey and others have noted, the required leadership skills can vary broadly depending on the level of operations. For example, most joint officers are familiar with their Services’ roles and missions, having spent the majority of their careers in the tactical environment. This familiarity generally includes the types of organizations (for example, JTFs and components) and processes (for example, troop-leading procedures and the air-tasking cycle). At this level, complexity is limited because most interaction is at the individual or small group



Nepalese army ranger works with U.S. Army Soldier during Situational Training Exercise portion of U.S. Army Alaska Warrior Leader Course on Joint Base Elmendorf-Richardson, August 2015 (U.S. Air Force/Justin Connaehr)

level, with decisionmaking measured in seconds, minutes, hours, or a few days.

The operational level of leadership expands complexity to include multiple organizations and the proliferation of the number and types of processes and products used. Reflecting this increased complexity, combatant commands operate at a different speed of decisionmaking to incorporate increased stakeholder views and desires. Combatant command regional and functional strategies and plans are complicated further by the needs of the individuals and organizations at the tactical level. The strategic level of leadership expands complexity to include the defense enterprise decisionmakers, such as the Secretary of Defense and Chairman. At this level, specific processes reduce in number, but the numbers of stakeholders, including allies and partners, increase across a broader range of domains, such as the economic and domestic domains. Decisionmaking can lengthen to months, years, or even

decades. Finally, at the national strategic level, decisionmakers such as the President must deal with global complexity that involves decisions spanning the time range of each of the lower levels—seconds, days, months, and years.

Wherever one resides in an organization—whether at the tactical, operational, or strategic level, or some level in between—different leadership paradigms exist. To meet strategic leadership demands, the joint community must develop strategic thinking competencies. Strategic thinking is a cognitive process used to design and sustain an organization's competitive advantage.¹⁷ It is a holistic method that leverages hindsight, insight, and foresight, and precedes strategy or plan development. Strategic thinking relies on an intuitive, visual, and creative process that explores the global security environment to synthesize emerging patterns, issues, connections, and opportunities.¹⁸ Developing strategic thinking skills or competencies fills

the strategic leadership shortfall while incorporating the desired leadership attributes identified by General Dempsey. Joint leader development thus becomes the vehicle that transitions the outdated military educational paradigm of the industrial age into one that serves the realities of the current information age environment.

Strategic Thinking Competencies

To reacquire the lost art of strategic thinking, seven competencies have emerged as vital for strategic leaders:

- critical thinking
- creative thinking
- contextual thinking
- conceptual thinking
- cultural thinking
- collaborative thinking
- communicative thinking.¹⁹

Cultivating these strategic thinking competencies can provide current and

Figure 3. Critical Thinking

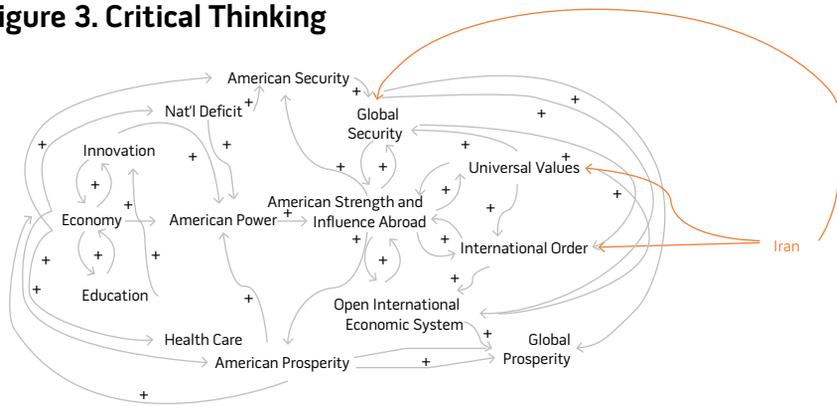
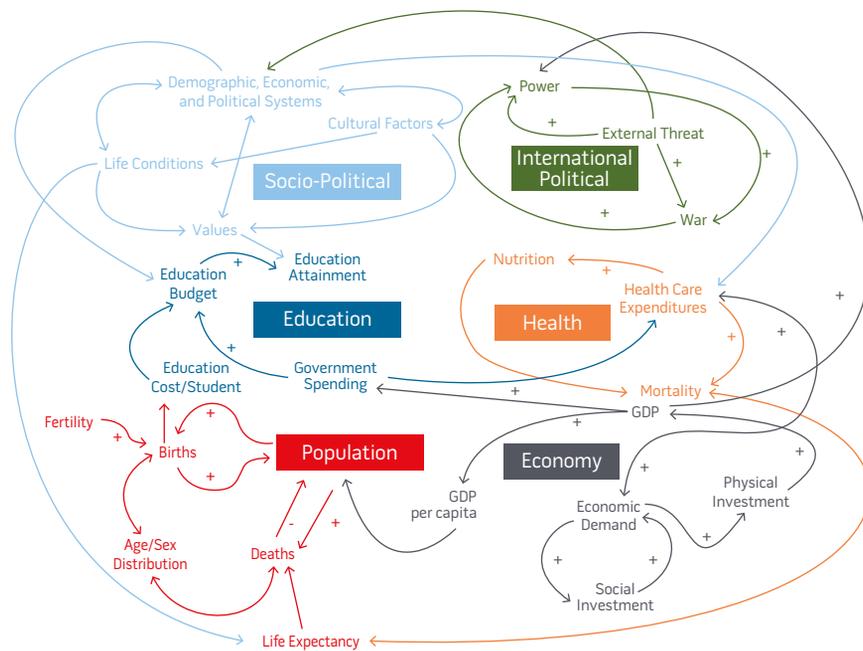


Figure 4. Creative Thinking: Iranian Systems Map



future strategic leaders with the skills necessary to develop and execute strategies and plans successfully.

The first competency, critical thinking, provides joint strategic leaders with a depth and breadth of understanding that leverage hindsight, insight, and foresight. Insight represents the ability to analyze a thing and break it apart to see how its individual components are related and work together. By breaking a thing down into its component parts, elements and relationships not usually visible or understood are exposed. To gain an appreciation of a system's current state, the past, including the environmental dynamics responsible for system

creation, must be understood. The continued interplay of these dynamics provides additional system insights and aids in the development of foresight. Trend extrapolation provides strategic leaders with a temporal bridge between the past and present to the future. This extrapolation of both environmental change and constants aids joint strategic leaders in developing an understanding of what may lie ahead and in anticipating future events and subsequent plan development.²⁰ Understanding the possible, plausible, and probable futures of a system aids strategic leaders in shaping the current conditions into those that are more preferable.

When applying critical thinking to the global security environment, the sheer volume of information and potential actors is overwhelming. Two key tools of critical thinking that facilitate joint strategic leader understanding and enhance their organizational principles are systems thinking and visual thinking. *Systems thinking* is an approach that promotes understanding of events and behavior through the identification and understanding of underlying structures.²¹ Viewed as systems, these structures are an organized set of elements interconnected in a way that achieves the stated purpose. Systems, therefore, have three components: elements, relationships, and purpose. System elements can be either tangible or intangible, although tangible elements are naturally more readily identifiable. System relationships or interconnections hold the elements together and represent the physical flow governing a system's processes. A system's purpose is not easily discerned because the formal stated function is often different from its actual purpose. So the best way to deduce the system's purpose is to observe it for a while.²²

Visual thinking engages the unconscious mind²³ and is vital in problem-solving and modeling systems, especially ill-structured problems.²⁴ Visual thinking allows for the processing of enormous amounts of information across multiple dimensions,²⁵ adds clarity to communication, more fully engages group members, and enhances memory.²⁶ Visual thinking assists joint strategic leaders by increasing their ability to recognize patterns and similarities and to see formal and informal relationships.

An example of critical thinking that leverages systems and visual thinking is the international security challenge the United States faces with Iran. Critical thinking requires the strategic leader to undertake a historical analysis of the two countries to develop an understanding of the current grievances between them. A systems map, leveraging visual thinking, helps to illustrate the current U.S. national security system and how Iran is undermining it (see figure 3). National security interests and the intensity of



General Dunford gives remarks on leadership at *Wall Street Journal* Chief Executive Officer Council annual meeting, November 2015 (DOD/Dominique A. Pineiro)

those interests, along with key leverage elements, could be identified using a systems map. In addition, possible strategies or approaches to limiting Iranian influence are more easily identified, together with the associated first-, second-, and third-order effects. Systems and visual thinking enhance joint strategic leader critical thinking by portraying system complexity and interrelationships in ways that simple narratives or discussion cannot.

Solving globally complex security problems is the *raison d'état* of joint strategic leaders; unfortunately, finding enduring solutions is frustratingly elusive. Why is that? Typically, the same assumptions that created the problem continue to frame any potential approaches to solving it. As assumptions are the personal or organizational perceptual bedrock used to develop and sustain views of reality, the second strategic thinking competency,

creative thinking, is needed to overcome this flawed perception. Creative thinking forces joint strategic leaders to challenge underlying assumptions, look for system patterns, view relationships and actors in new ways, take more risks, and leverage opportunities. Creative thinking uses the critical thinking tools of systems thinking and visual thinking to expose preexisting paradigms and develop new paradigms for developing and integrating new perspectives. Joint strategic leaders who can represent problems in as many ways as possible will ultimately achieve higher rates of success.

Systems and visual thinking tools enable joint strategic leaders to develop different perspectives of an opposing system. For example, creating a depiction of the Iranian sociopolitical system might provide the strategic leader with new insights into why current policies or operations are not creating the desired

results. Systems and visualization tools are particularly effective for gaining insights into complex, adaptive systems (see figure 4). Creative thinking leverages primarily critical and collaborative thinking.

The third strategic thinking competency is contextual thinking. Contextual thinking leverages the skilled judgment of the joint strategic leader by analyzing an environmental fact or situation as an individual part of a complex continuum rather than the outcome of a specific cause or influence. Contextual thinking assists strategic leaders in the development of a better understanding of the nature of social interactions and the effects on cognitive processing. In complex problems, when context is missing, meaning is lost. In the global strategic security environment, the multiple solutions, methods, criteria, and perspectives surrounding the ill-structuredness of the security issue must be conveyed,

not eliminated. Joint strategic leaders must then learn to sift through layers of context to identify those that are most relevant and important when solving problems.²⁷

For example, in a typical military context, there is often a failure to differentiate between the strategic, operational, and tactical levels of war when discussing an issue. As we know, stakeholders and problems change depending on perspective. There are a number of questions that can be used to help frame context. What is the history of the issue? What was the strategic political and social context? Who were the actors? What was the central issue? What were the surrounding issues? Contextual thinking frames a point of common understanding for all stakeholders and participants. It leverages critical, creative, and conceptual thinking.

The fourth strategic thinking competency, conceptual thinking, is used by joint strategic leaders to understand a situation or problem by integrating issues and factors into a conceptual framework. Concepts, and the resulting maps, are the basis for human understanding and reasoning. Therefore, concepts are a form of knowledge structure that facilitates understanding.²⁸ Purposeful models help strategic leaders structure the exploration of a problem situation and are the most common means of initiating a comparison stage of problem-solving or understanding.²⁹

When dealing with complex problems, conceptual thinking helps joint strategic leaders illustrate interrelationships, facilitating much-needed discourse. Complex systems must be conceptually simplified to make them understandable.³⁰ Conceptual thinking requires joint strategic leaders to be open to new ways of viewing the world, with a willingness to explore issues through alternative disciplines. Conceptual thinkers can effectively translate abstract thoughts to unfamiliar audiences. Conceptual thinking leverages critical, creative, contextual, and communicative thinking competencies.

The fifth strategic thinking competency is collaborative thinking, which creates synergy, improves performance,

and motivates people to learn, develop, share, and adapt to changes. Collaborative thinking assists joint strategic leaders in developing synergy from stakeholders by openly sharing knowledge and experience, while acknowledging and affirming the same in others. Mutual sharing, respect, diversity, and equal participation that occur through high-order social learning, thinking, and communicating characterize collaborative groups.³¹ Collaborative communication is the foundation of effective engagement, peak performance, and innovative outcomes; more importantly, it helps to develop and achieve common goals across national and institutional boundaries.

In today's global security environment, the joint force cannot claim expertise across the globe. Rather, joint strategic leaders must integrate stakeholders' deep understanding of their environments to find a heightened level of perception and new ways to think about issues. Collaborative thinking directly enhances critical and creative thinking and is influenced by cultural and communicative thinking competencies.

Cultural thinking, the sixth strategic thinking competency, is used to understand the interconnected world, incongruence of national borders, and synthesis of perspectives across a broad spectrum of cultures. Cultural thinking enables joint strategic leaders to understand a wider range of views and the beliefs, norms, values, and rituals associated with the global security environment. Enabled by information technology, the post-Cold War security environment collapsed into an intrinsically connected economic, cultural, and security global village. This interconnected world requires joint strategic leaders to understand that today's security environment is not only multipolar but also exhibits characteristics of cross-pollinated perspectives, ideologies, goals, and capabilities.

Within this global village, the costs of individual action have been intensified, with potentially substantial implications for the international security community. This new security reality has created a

different ideological context that calls for international security responsibilities that go beyond individuals and nation-states.³² Joint strategic leaders regularly face tough ethical challenges because of various cultural factors. The greater the complexity of the environment within which the joint force is operating, the greater potential there is for ethical problems or misunderstandings to exist. As joint strategic leaders become ethically attuned, they must learn to view the world through a variety of lenses, developing a personal sense of right and wrong, and to interpret the influences that affect individual and group behavior.³³ Cultural thinking leverages critical, collaborative, and communicative thinking.

The last strategic thinking competency is communicative thinking. Communicative thinking is used by joint strategic leaders to understand the various means and modes of communicating, as well as the challenges associated with communicating complex issues among individuals, organizations, societies, cultures, and nations. A strategic leader must be able to build a desired, shared vision for the organization and communicate that vision internally and externally to various audiences. Joint strategic leaders must conceptualize complex issues and processes, simplify them, and inspire people around them. In today's multicultural world, strategic leaders must be able to communicate across cultures as easily as they can communicate internally.

Joint strategic leaders must understand the cultural nuances of communication and be capable of communicating using multiple modes and methods, including blogs, tweets, written and oral reports, videos, storyboards, PowerPoint presentations, and formal and informal sessions. They must also be aware that communication occurs continuously and that it can occur nonverbally and through inactivity. Joint strategic leaders must understand that communication is a filtered, continuous, and active process and cannot be undone.³⁴ Communicative thinking leverages critical, collaborative, and cultural thinking competencies.

Recommendations and Conclusion

In the slower moving world of the industrial age, joint strategic leaders could plod their way through familiar tasks and concepts, developing solutions to a level of certainty most experts could agree on. In the fast-moving interconnected global security environment of today, however, strategic leaders do not have the luxury of time, task familiarity, or certainty. As a result, strategic leader competencies are needed more than ever. The difference between strategic leadership and “regular” leadership is that a strategic leader’s responsibilities are far broader and deeper in scope. These responsibilities typically cross not only functions and domains, but also often encompass multiple organizations that have diverse roles and responsibilities.

As officers transition from the tactical to the operational to the strategic level, new skills and competencies are needed, and that is where strategic leadership comes into play. With unmatched tactical and operational skills, U.S. joint doctrine should not be changed to deemphasize this critical operational leadership focus. Rather, doctrine must be expanded to include strategic leadership to address the competencies needed for strategy and policy development. Given this understanding of the leadership environment, and lacking a current joint definition of *strategic leadership*, the following definition is proposed:

The interactive process of leveraging unique stakeholder capabilities in the pursuit of common and enduring national, partner, and alliance security needs by identifying and communicating the goals and objectives of cooperative and willing stakeholders, and influencing their attainment.

As Zinni and Koltz state in their book, the joint force needs officers who possess the requisite strategic thinking competencies demanded by both the current and the future global security environments.³⁵ Current joint doctrine focuses on the low operational and

tactical levels of war, and is insufficient for the development of joint strategic leaders.

Joint officer development must change the paradigm of the past 50 years or so to acknowledge the new skills required as the world continues the transition from the industrial age to the information age. As the Chairman and others have identified, strategic leadership is a necessity for operating in the 21st-century security environment. This framework provides an approach to fill the leadership development shortfall in joint officer development, education, and doctrine. JFQ

Notes

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